

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A method of obtaining a recombinant glucose binding protein expressed in non-plant host cells comprising reducing the glycogen content of a lysate of said cells.
2. (Original) A method as claimed in claim 1 comprising treating a lysate of said cells with a buffer in which glycogen is soluble, but in which said protein is insoluble.
3. (Original) A method as claimed in claim 2 wherein other impurities are also soluble in said buffer.
4. (Currently amended) A method as claimed in claim 2 ~~or claim 3~~ wherein said buffer is a low ionic strength buffer ($I < 0.3$) with a pH between 8.5 and 9.5.
5. (Original) A method as claimed in claim 4 wherein said buffer further comprises a metal chelating agent.
6. (Original) A method as claimed in claim 5 wherein said metal chelating agent is EDTA.
7. (Currently amended) A method as claimed in ~~any one of claims 1 to 5~~ claim 1 wherein said buffer further comprises a non-ionic detergent.
8. (Original) A method as claimed in claim 7 wherein said non-ionic detergent is Triton X-100.
9. (Currently amended) A method as claimed in ~~any one of claims 1 to 8~~ claim 1 wherein said buffer comprises 2-(cyclohexylamino)-ethanesulphonic acid.

10. (Currently amended) A method as claimed in ~~any one of claims 1 to 8~~ claim 1 wherein said buffer comprises borate.

11. (Original) A method as claimed in claim 10 wherein said buffer is 20 mM Borax ($\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$.)

12. (Currently amended) A method as claimed in ~~any one of claims 2 to 11~~ claim 2 wherein said pH is between 9.05-9.25.

13. (Currently amended) A method as claimed in ~~any one of claims 2 to 12~~ claim 2 wherein $I < 0.1$.

14. (Currently amended) A method as claimed in ~~any one of claims 1 to 13~~ claim 1 further comprising the step of removing any glycogen-Con A complex formed.

15. (Currently amended) A method as claimed in ~~any one of claims 1 to 14~~ claim 1 wherein said non-plant host is a bacterium.

16. (Original) A method as claimed in claim 15 wherein said bacterium is *Escherichia coli*.

17. (Original) A method as claimed in claim 15 wherein said *Escherichia coli* cells are incapable of producing glycogen due to defects or mutations in genes for the biosynthesis of glycogen.

18. (Currently amended) A method as claimed in ~~any one of claims 1 to 17~~ claim 1 wherein said non-plant host cells have been cultured in the absence of an assimilable carbohydrate or carbon source that may be accumulated as glycogen.

19. (Original) A method as claimed in claim 18 wherein said non-plant host cells have been cultured in the absence of glucose.

20. (Currently amended) A method as claimed in ~~any one of claims 1 to 19~~ claim 1 wherein said glucose binding protein is a glucose binding lectin.

21. (Original) A method as claimed in claim 20 wherein said lectin is Concanavalin A.

22. (Currently amended) ~~A protein isolated by a method as defined in any one of claims 1 - 21~~ The use of a buffer in which glycogen is soluble, but in which a glucose binding protein is insoluble in the purification of a recombinant glucose binding protein expressed by a non-plant host cell.

23. (Currently amended) ~~The use of a buffer in which glycogen is soluble, but in which a glucose binding protein is insoluble in the purification of a recombinant glucose binding protein expressed by a non-plant host cell~~ The method of claim 2 which uses a buffer in which glycogen is soluble, but in which a glucose binding protein is insoluble in the purification of a recombinant glucose binding protein expressed by a non-plant host cell.

24. (Currently amended) ~~The use as claimed in claim 23 modified by any of the features as claimed in any one of claims 2 - 20~~ A recombinant glucose binding protein that is substantially free of glycogen, and other impurities.

25. ~~A recombinant glucose binding protein that is substantially free of glycogen, and optionally other impurities~~ A protein as claimed in claim 24, wherein said protein is a lectin.

26. (Currently amended) ~~A protein as claimed in claim 25, wherein said protein is a lectin~~ A protein as claimed in claim 26, wherein said lectin is Concanavalin A, or a precursor form, or a mutant, or a variable valency or low valency form thereof.

27. (Currently amended) ~~A protein as claimed in claim 26, wherein said lectin is Concanavalin A, or a precursor form, or a mutant, or a variable valency or low~~

~~valency form thereof~~ The use of a recombinant glucose binding protein as claimed in claim 24 in a system where the presence of glycogen would interfere with the binding of said glucose binding protein to another ligand.

28. (Currently amended) ~~The use of a recombinant glucose binding protein obtained by a method of claims 1-21 or a recombinant glucose binding protein as claimed in claim 25 in a system where the presence of glycogen would interfere with the binding of said glucose binding protein to another ligand~~ The use as claimed in claim 27 for measuring glucose concentration.

29. (Currently amended) ~~The use as claimed in claim 28 for measuring glucose concentration~~ The use as claimed in claim 27 wherein the recombinant protein is expressed from a coding sequence derived from a leguminous plant.

30. (Currently amended) ~~The use as claimed in claim 28 or claim 29 wherein the recombinant protein is expressed from a coding sequence derived from a leguminous plant~~ The use as claimed in claim 29 wherein said plant is of the genus *Canavalia*.

31. (Currently amended) ~~The use as claimed in claim 30 wherein said plant is of the genus *Canavalia*~~ The use as claimed in claim 27 wherein said plant is *Canavalia ensiformis*.

32. (Currently amended) ~~The use as claimed in any one of claims 28 to 31 wherein said plant is *Canavalia ensiformis*~~ The use as claimed in claim 27 wherein said protein is a lectin.

33. (Currently amended) ~~The use as claimed in any one of claims 28 to 32 wherein said protein is a lectin~~ The use as claimed in claim 27 wherein said protein is a Concanavalin-A like lectin.

34. (Currently amended) ~~The use as claimed in any one of claims 28 to 32 wherein said protein is a Concanavalin-A like lectin~~ The use as claimed in claim 27 wherein said protein is Concanavalin A, or a precursor form, or a mutant, or a variable valency or low valency form thereof, which is substantially free of Con-A-sequence related polypeptides or fragments.

35. (Currently amended) ~~The use as claimed in any one of claims 28 to 32 wherein said protein is Concanavalin A, or a precursor form, or a mutant, or a variable valency or low valency form thereof~~ The use as claimed in claim 33 wherein said Concanavalin A is in the mature tetrameric tetravalent form.

36. (Currently amended) ~~The use as claimed in claim 35 wherein said Concanavalin A is substantially free of Con-A-sequence related polypeptides or fragments~~ The use as claimed in claim 28 wherein the protein is substantially free of glycogen.

37. (Currently amended) ~~The use as claimed in claim 35 or claim 36 wherein said Concanavalin A is in the mature tetrameric tetravalent form~~ The use as claimed in claim 28 wherein said glucose concentration is measured by viscometric methods.

38. (Currently amended) ~~The use as claimed in any one of claims 29 to 37 wherein the protein is substantially free of glycogen~~ The use as claimed in claim 28 wherein said glucose concentration is measured using a fluorescence-based method.

39. (Currently amended) ~~The use as claimed in any one of claims 29 to 38 wherein said glucose concentration is measured by viscometric methods~~ The use as claimed in claim 28 wherein the method utilizes an analyte analogue which is a glucose derivative, a polymer or polysaccharide containing glucose or a carrier molecule covalently linked to a glucose derivative or glucose.

40. (Currently amended) ~~The use as claimed in any one of claims 29 to 38 wherein said glucose concentration is measured using a fluorescence-based method~~ The use as claimed in claim 39 wherein said carrier molecule is a protein.

41. (Currently amended) ~~The use as claimed in any one of claims 29 to 40 wherein the method utilises an analyte analogue which is a glucose derivative, a polymer or polysaccharide containing glucose or a carrier molecule covalently linked to a glucose derivative or glucose~~ The use as claimed in claim 40 wherein said carrier protein is a serum albumin.

42. ~~The use as claimed in claim 41 wherein said carrier molecule is a protein~~
The use as claimed in claim 27 wherein said protein forms part of a glucose biosensor.

43-44. (Canceled)